

Bulletins

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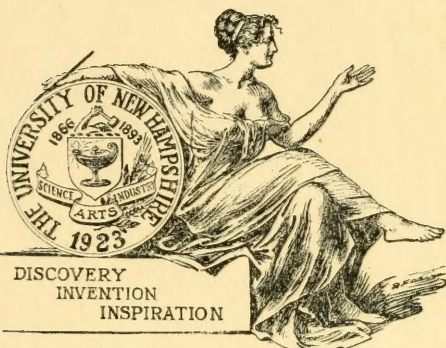
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#192 - 30th Ann. Rpt. 1918
#198 - 31/32 Ann. Rpts 1919/1920
#203 - 33d Ann. Rpt 1921
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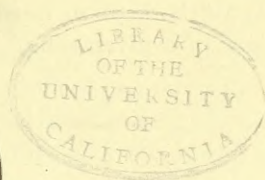
Bulletin 184

August, 1917

NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF CHEMISTRY

Analysis of Feeding Stuffs

MADE FOR THE
STATE DEPARTMENT OF AGRICULTURE



BY B. E. CURRY AND T. O. SMITH

NEW HAMPSHIRE COLLEGE
OF
AGRICULTURE AND THE MECHANIC ARTS
DURHAM, N. H.

Feeding-Stuffs Inspection and Analyses, 1917.

The samples of the various brands of feeding-stuffs for the 1917 inspection were collected by Mr. A. G. Weeks, under the direction of Mr. A. L. Felker, Commissioner of Agriculture. Aside from duplicates, 302 samples were received and analyzed at the New Hampshire Experiment Station. Samples representing duplicates are not reported in this bulletin.

In this report a percentage valuation is given for the carbohydrates. The percentage of ash and moisture has been determined this year in addition to the determination of protein, fat and crude fiber which has been reported heretofore. The carbohydrate value includes the crude fiber as well as starches, sugar, etc. The crude fiber has a low digestibility and this should be kept in mind in making comparative or other valuations of a given sample of feed-stuff.

The percentage of carbohydrates is obtained by subtracting the sum of the percentage of protein, fat, ash, and moisture from 100 per cent.

A statement of the ingredients of the compounded feed-stuffs as certified by the manufacturers, will be found on pages 12 to 16.

Messrs. A. J. Grant, E. N. Sanders, F. A. Barker, H. C. Fogg, and P. B. Place have assisted in the preparation of the following data.

Copies of this report will be sent free upon request to the Director of the New Hampshire Experiment Station, Durham, N. H., or the Commissioner of Agriculture, Concord, N. H.

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.	Carbo- hydrates.		Ash.		Moisture.		Crude Fibre.		
			Pound.	Guaranteed.		Pound.	Guaranteed.	Pound.	Guaranteed.	Pound.	Guaranteed.			
WHEAT FEEDS.														
Middlings	Ansted & Burk Co.	Springfield, Ohio	14.98	15.00	4.19	5.00	65.83	58.00	4.25	.....	10.75	.....	5.50	.....
Mixed Feed	Ansted & Burk Co.	Springfield, Ohio	15.40	14.00	4.22	4.50	65.34	56.00	5.44	.....	9.60	.....	8.17	8.50
Standard Wheat Middlings	Atlas Flour Mill	Milwaukee, Wis.	15.35	13.50	4.14	3.50	64.23	54.00	6.28	.....	10.00	.....	10.52	10.50
Bailey Fancy Feed	E. W. Bailey & Co.	Montpelier, Vt.	16.28	.....	4.19	.....	65.87	.....	5.03	.....	8.63	.....	8.50	.....
Pennant Pure Winter Bran	E. W. Bailey & Co.	Montpelier, Vt.	15.76	14.50	4.06	4.00	62.08	.....	6.85	.....	11.25	.....	10.00	.....
Golden Link Wheat Flour	Baldwin Flour Mills	Minneapolis, Minn.	17.69	14.50	5.10	4.00	58.46	.....	9.91	.....	8.84	.....	12.00	.....
Golden Link Wheat Bran	Baldwin Flour Mills	Minneapolis, Minn.	17.12	16.50	5.19	5.00	62.09	.....	4.62	.....	10.98	.....	3.05	7.00
Golden Link Wheat Flour	Baldwin Flour Mills	Minneapolis, Minn.	17.51	18.00	4.69	5.00	64.56	.....	2.96	.....	10.28	.....	4.00	.....
Fancy Low Grade Flour	Barber Milling Co.	Minneapolis, Minn.	19.01	14.00	5.17	4.00	62.59	61.00	5.13	.....	8.10	.....	10.00	.....
Pure Wheat Middlings	Bozenan Milling Co.	Bozenan, Mont.	13.93	.....	5.11	.....	64.67	.....	5.14	.....	11.15	.....	.....	.....
Ceretana Bran	Bozenan Milling Co.	Bozenan, Mont.	13.93	.....	5.11	.....	64.67	.....	5.14	.....	11.15	.....	.....	.....
Pure Wheat Bran & Screenings	Bowersock Mills & Power Co.	Lawrence, Kas.	18.48	14.50	3.29	3.75	62.27	50.00	5.72	.....	10.25	.....	8.72	12.00
Wheat Standard Middlings	Catawba City Milling Co.	Niagara Falls, N. Y.	16.34	15.00	4.80	4.50	62.49	.....	5.17	.....	11.20	.....	8.24	10.00
Matchless Pure Wheat Bran	L. Christian & Co.	Minneapolis, Minn.	14.45	15.00	4.82	4.00	61.64	.....	6.40	.....	9.69	.....	10.37	10.00
Dudley Wheat Bran	Chas. M. Cox Co.	Boston, Mass.	14.89	15.50	4.71	.....	61.87	.....	5.74	.....	12.79	.....	12.83	9.00
Monogram Fancy Pure Wheat Bran	Chas. M. Cox Co.	Boston, Mass.	16.03	15.00	5.11	4.00	63.69	.....	5.29	.....	9.88	.....	10.00	.....
Wichmore Middlings	Chas. M. Cox Co.	Boston, Mass.	16.10	14.50	5.01	4.00	63.83	50.00	4.32	.....	10.74	.....	6.87	7.00
Wichmore Wheat Feed	Chas. M. Cox Co.	Boston, Mass.	15.76	16.00	4.05	4.00	63.62	.....	4.99	.....	11.58	.....	8.00	7.00
Rob Roy Feed	Wm. A. Coombs Milling Co.	Coldwater, Mich.	15.76	15.00	4.92	3.00	64.93	54.00	4.74	.....	9.63	.....	.....	9.00
Wheat Bran	Wm. A. Coombs Milling Co.	Coldwater, Mich.	14.42	14.00	3.82	3.00	65.87	.....	6.60	.....	9.26	.....	10.00	.....
Wheat Middlings	Wm. A. Coombs Milling Co.	Coldwater, Mich.	15.85	15.00	4.63	3.00	66.53	.....	4.72	.....	8.27	.....	6.00	.....
Tiger Middlings	Detroit Milling Co.	Detroit, Mich.	15.76	15.50	4.64	5.00	65.34	.....	3.82	.....	10.44	.....	5.27	8.00
Boston Mixed Feed	Duluth Superior Milling Co.	Duluth, Minn.	15.76	15.00	4.43	4.25	64.16	.....	5.14	.....	10.51	.....	9.00	9.75
Duluth Imperial Bran	Duluth Superior Milling Co.	Duluth, Minn.	14.45	14.50	5.42	3.75	64.49	.....	5.75	.....	9.89	.....	10.21	12.25
Red Dog	Duluth Superior Milling Co.	Duluth, Minn.	17.50	16.75	5.45	4.25	36.83	.....	3.17	.....	10.05	.....	3.15	3.00
Elmore's Milk Grains	Elmore Milling Co.	Oneonta, N. Y.	26.01	25.00	6.76	6.00	55.75	.....	4.50	.....	6.89	.....	11.27	10.00
Dairy Maid Winter Wheat Middlings	Federal Milling Co.	Lockport, N. Y.	14.15	13.50	4.18	3.50	67.46	53.00	3.70	.....	10.51	.....	8.50	.....
Lucky Spring Wheat Flour Middlings	Federal Milling Co.	Lockport, N. Y.	17.69	14.00	3.91	3.50	64.07	52.00	4.74	.....	9.59	.....	8.50	.....
Improved Gratton Wheat Feed	Grafton Roller Mill Co.	Grafton, N. Dak.	15.60	15.04	5.60	4.50	64.85	.....	4.45	.....	10.50	.....	8.13	9.30
Xtragood Mixed Feed	Grissold & Mackinnon	St. Johnsbury, Vt.	15.76	16.00	4.72	4.00	64.70	.....	5.64	.....	9.18	.....	7.50	7.50
Gwinn's Dairy Feed	Gwinn Milling Co.	Columbus, Ohio	15.33	15.00	4.28	.....	61.95	.....	4.74	.....	13.70	.....	7.64	9.00
Gwinn's Red Dog Flour	Gwinn Milling Co.	Columbus, Ohio	16.99	.....	4.04	.....	65.73	.....	2.76	.....	10.48	.....	2.64	.....
Gwinn's Wheat Bran	Gwinn Milling Co.	Columbus, Ohio	14.63	15.00	3.83	.....	65.69	.....	6.25	.....	9.60	.....	10.32	10.00
Gwinn's Wheat Middlings	Gwinn Milling Co.	Columbus, Ohio	16.12	16.00	5.27	4.00	64.34	.....	3.98	.....	10.29	.....	5.54	7.50

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo- hydrates.		Ash.		Moisture.		Crude Fibre.	
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
WHEAT FEEDS.—Continued.														
Choice Wheat Bran.....	Hecker, Jones, Jewell Milling Co.	Buffalo, N. Y.....	15.50	14.00	4.42	4.25	62.09	52.50	6.36	11.63	8.29	11.63	8.60	11.50
Fancy White Middlings.....	Hecker, Jones, Jewell Milling Co.	Buffalo, N. Y.....	17.40	16.75	4.97	4.93	64.24	58.00	3.03	10.36	9.19	10.36	4.97	5.50
Mixed Feed.....	Hecker, Jones, Jewell Milling Co.	Buffalo, N. Y.....	16.00	15.00	4.93	5.25	61.93	54.00	5.60	10.94	8.56	10.94	8.97	9.25
Standard Middlings.....	Hecker, Jones, Jewell Milling Co.	Buffalo, N. Y.....	13.48	16.50	5.58	6.00	60.13	52.50	5.13	10.68	8.29	10.68	8.50	8.50
Dreadnought Extra Coarse Wheat Bran.....	Hunter, Robinson, Wenz Milling Co.	St. Louis, Mo.....	15.50	15.50	3.67	4.00	65.47	50.00	7.07	8.29	8.29	8.29	11.00	11.00
Standard Fine Middlings.....	Hubbard Milling Co.....	Mankato, Minn.....	17.60	18.70	5.92	4.59	57.31	50.00	5.43	13.74	9.01	13.74	9.01	9.00
Anchor Pure Bran.....	Kemper Mill & Elevator Co.....	Kansas City, Mo.....	17.78	14.50	3.87	4.00	62.01	53.50	7.16	9.19	9.19	9.19	10.00	10.00
Carnation Gray Middlings.....	Kemper Mill & Elevator Co.....	Kansas City, Mo.....	17.86	16.00	4.24	4.30	60.76	56.25	5.32	11.82	8.56	11.82	8.00	8.00
Blue Tag Mixed Feed.....	F. W. Kelley Co.....	St. Johnsbury, Vt.....	16.20	16.00	4.77	4.00	65.04	50.00	5.43	8.56	9.05	8.56	7.50	7.50
Snow Flake Mixed Feed.....	Lawrenceberg Roller Mill Co.....	Lawrenceberg, Ind.....	15.76	15.20	4.54	4.30	64.60	50.00	6.04	9.05	9.05	9.05	9.86	8.00
Elmco Wheat Fancy Bran.....	Listman Mill Co.....	Lacrosse, Wis.....	15.50	14.88	3.88	4.20	65.83	50.00	4.64	10.15	10.15	10.15	9.11	11.22
Elmco Wheat Fancy White Middlings & Screenings.....	Listman Mill Co.....	Lacrosse, Wis.....	17.08	16.29	5.11	5.09	64.02	50.00	3.57	10.22	10.22	10.22	5.30	5.30
Elmco Wheat Red Dog Flour.....	Listman Mill Co.....	Lacrosse, Wis.....	15.85	15.91	4.35	3.94	67.89	50.00	2.52	9.39	9.39	9.39	2.08	2.08
Elmco Wheat Standard Middlings & Screenings.....	Listman Mill Co.....	Lacrosse, Wis.....	15.50	14.88	3.88	4.20	65.83	50.00	4.64	10.15	10.15	10.15	9.11	11.22
Fancy Canadian Middlings.....	Maple Leaf Milling Co. Limited	Toronto, Canada.....	16.29	16.00	5.63	5.50	62.18	50.00	4.80	11.10	11.10	11.10	7.99	10.00
Wheat Bran.....	Maple Leaf Milling Co. Limited	Toronto, Canada.....	15.76	15.50	4.97	4.00	60.89	50.00	5.12	13.26	8.36	13.26	12.00	12.00
Brooks Fancy Mixed Feed.....	A. H. McLeod Milling Co.....	St. Johnsbury, Vt.....	15.59	16.00	4.41	4.00	65.58	50.00	6.06	8.36	8.36	8.36	9.00	9.00
Bran.....	McQuesten & Lewis.....	Manchester, N. H.....	14.58	14.58	3.39	3.39	65.51	50.00	5.44	11.08	11.08	11.08	9.15	9.15
Middlings.....	McQuesten & Lewis.....	Manchester, N. H.....	14.54	14.54	4.53	4.00	66.19	50.00	2.82	11.92	11.92	11.92	9.15	9.15
Big B Mixed Feed.....	Moseley & Motley Milling Co.....	Rochester, N. Y.....	15.61	15.00	4.99	4.00	60.33	50.00	5.60	13.47	13.47	13.47	9.12	12.00
Highest Quality Pennant Feed.....	National Milling Co.....	Toledo, Ohio.....	15.41	15.00	4.94	3.75	66.13	49.00	4.94	9.48	9.48	9.48	7.42	8.50
Choice Wheat Bran.....	National Milling Co.....	Niagara Falls, N. Y.....	15.15	12.00	4.98	3.50	64.13	49.00	5.91	9.83	9.83	9.83	10.17	13.00
Osota Feed.....	Niagara Falls Milling Co.....	Niagara Falls, N. Y.....	15.15	12.00	4.98	3.50	64.13	49.00	5.91	9.83	9.83	9.83	10.17	13.00
Planet Feed.....	Northwestern Consol. Milling Co.	Toledo, Ohio.....	15.50	15.00	4.82	4.50	65.39	50.00	4.12	10.17	10.17	10.17	7.92	10.00
Pure Wheat Bran.....	Northwestern Consol. Milling Co.	Minneapolis, Minn.....	17.51	15.00	4.86	4.00	60.02	55.00	5.35	8.66	8.66	8.66	8.00	8.00
Wheat Flour Middlings.....	Northwestern Consol. Milling Co.	Minneapolis, Minn.....	14.54	14.50	4.73	4.00	64.14	50.00	6.26	10.33	10.33	10.33	11.00	11.00
Wheat Mixed Feed.....	Northwestern Consol. Milling Co.	Minneapolis, Minn.....	16.73	15.50	5.12	4.50	64.26	57.00	4.47	9.42	9.42	9.42	6.00	6.00
Wheat Standard Middlings.....	Northwestern Consol. Milling Co.	Minneapolis, Minn.....	15.76	15.00	4.53	4.50	63.59	53.00	5.37	10.75	10.75	10.75	10.00	10.00
XXX Comet Pure Wheat Product	Northwestern Consol. Milling Co.	Minneapolis, Minn.....	16.03	15.00	4.88	4.50	64.85	53.00	5.00	9.24	9.24	9.24	9.25	11.00
Wheat Feed.....	Northwestern Consol. Milling Co.	Minneapolis, Minn.....	18.39	16.50	4.63	4.00	63.78	50.00	3.20	10.00	10.00	10.00	3.00	3.00
Hominy Feed.....	Ogilvie Flour Mills Co., Ltd.	Montreal, Canada.....	16.85	15.00	4.81	5.00	63.86	50.00	3.83	10.65	10.65	10.65	7.00	8.00
Pillsbury's Durum Wheat Bran.....	Patent Cereals Co.....	Geneva, N. Y.....	11.64	10.00	5.82	6.00	70.62	50.00	2.50	9.42	9.42	9.42	4.49	5.00
Pillsbury's Durum Wheat Stand- ard B. Middlings.....	Pillsbury Milling Co.....	Minneapolis, Minn.....	13.49	11.00	5.16	4.00	66.96	53.00	5.32	9.07	9.07	9.07	14.00	14.00
Pillsbury's Durum Wheat Stand- ard B. Middlings.....	Pillsbury Milling Co.....	Minneapolis, Minn.....	15.11	12.50	6.83	4.00	64.34	54.00	5.21	8.51	8.51	8.51	11.00	11.00

WHEAT FEEDS.—Continued.

Pillsbury's Fancy Mixed Feed.....	Minneapolis, Minn...	15.94	14.00	4.23	4.00	61.33	53.00	4.96	13.54	9.80	10.00
Pillsbury's Wheat A. Middlings.....	Minneapolis, Minn...	16.90	15.00	5.21	4.50	66.20	55.00	4.59	7.10	7.00	7.00
Pillsbury's Wheat Bran.....	Minneapolis, Minn...	14.80	13.00	4.26	4.00	62.82	50.00	6.82	11.30	10.81	13.00
Pillsbury's Wheat Standard B. Middlings.....	Minneapolis, Minn...	16.46	14.00	4.88	4.00	62.88	52.00	5.82	9.96	8.37	11.00
Pillsbury's XX Daisy.....	Minneapolis, Minn...	17.60	16.00	3.69	4.00	65.05	60.00	3.02	10.64	4.10	8.47
Champion Mixed Feed.....	Minneapolis, Minn...	14.66	13.56	4.11	3.58	66.64	59.54	5.51	9.08	10.67	10.50
Bran (Winter).....	Philadelphia, Pa.	14.01	13.00	3.02	3.00	65.37	50.00	6.83	10.77	8.71	8.50
Buckeye Feed.....	Chicago, Ill.	15.68	15.50	5.19	4.50	63.89	55.00	5.11	10.13	9.27	5.18
Middlings.....	Tekousha, Mich.	15.06	14.00	4.76	3.50	63.95	...	4.96	9.27	5.18	6.00
Richardson Mixed Feed.....	Richardson, N. Dak.	15.59	16.70	4.07	3.70	65.41	...	5.00	9.93	6.58	9.20
Four Middlings.....	Minneapolis, Minn...	17.08	15.00	4.66	5.00	64.43	...	3.37	10.46	5.50	9.00
Occident Wheat Feed.....	Minneapolis, Minn...	16.00	15.00	5.43	4.50	63.41	...	4.72	10.44	9.28	10.00
Standard Middlings.....	Minneapolis, Minn...	16.46	15.00	5.76	4.00	63.62	...	4.50	9.66	8.00	9.00
Gold Mine Feed.....	Minneapolis, Minn...	15.71	15.00	4.82	4.50	63.50	...	5.06	10.90	9.00	9.00
Shredded Wheat Waste.....	Niagara Falls, N. Y.	11.21	10.00	2.62	1.50	76.88	...	1.84	7.45	2.00	2.00
Wheat Screenings.....	Niagara Falls, N. Y.	13.31	12.90	2.62	2.26	68.60	...	2.80	12.67	4.56	3.93
Pure Wheat Bran.....	Alton, Ill.	17.43	17.00	3.27	3.50	61.41	46.50	6.90	10.99	10.60	10.60
Try-Me Winter Mixed Feed.....	Minneapolis, Minn...	16.99	16.00	4.35	3.50	63.01	50.00	5.25	10.40	7.15	8.50
Wheat Middlings.....	Minneapolis, Minn...	15.68	16.50	4.59	4.50	66.84	52.00	4.87	8.02	9.50	9.50
Bran.....	Hillsdale, Mich.	14.71	14.00	3.87	3.00	64.38	...	6.27	10.87	10.00	10.00
Middlings.....	Hillsdale, Mich.	16.56	16.50	4.98	4.00	65.47	...	5.04	7.95	6.00	6.00
Stag Flour.....	Detroit, Mich.	14.36	14.00	2.97	3.00	69.64	67.00	1.93	11.10	2.00	2.00
Stott's Fine White Middlings.....	Detroit, Mich.	15.33	15.00	3.77	4.50	66.08	60.00	3.35	10.47	4.87	6.00
Stott's Heavy Mixed Wheat Feed.....	Detroit, Mich.	14.89	16.00	3.94	4.00	62.17	...	5.78	13.22	9.00	9.00
Stott's Honest Mixed Feed.....	Detroit, Mich.	15.41	15.50	4.47	4.50	54.48	52.50	4.90	10.74	8.00	8.00
Stott's Pure Winter Wheat Bran.....	Detroit, Mich.	15.22	14.00	3.92	4.50	63.38	51.50	6.55	10.93	10.50	10.50
Spring Wheat Bran & Wheat Screenings.....	Detroit, Mich.	14.45	14.00	4.13	4.00	64.79	50.00	5.83	10.80	8.36	10.50
Stott's Winter Feed.....	Detroit, Mich.	10.42	10.50	5.23	5.00	72.38	62.00	2.73	9.24	7.82	8.50
Stratton & Co.'s Fancy Bran.....	Concord, N. H.	15.10	15.00	4.25	4.00	64.63	...	5.61	10.42	9.00	11.00
Stratton & Co.'s Middlings.....	Concord, N. H.	16.29	16.20	4.40	4.26	66.58	...	2.98	9.75	4.64	6.50
Stratton & Co.'s Mixed Feed.....	Concord, N. H.	18.10	15.87	4.87	4.92	63.61	...	4.21	9.21	7.09	9.12
Wheat Bran.....	Lake City, Minn.	14.89	14.00	4.46	4.00	60.90	...	5.74	14.01	10.44	11.00
Angelus Wheat Bran.....	Lockport, N. Y.	15.24	13.00	4.22	4.00	64.55	...	6.55	9.44	14.00	14.00
Angelus Wheat Middlings.....	Lockport, N. Y.	16.46	13.00	4.76	4.00	65.36	...	3.75	9.67	14.00	14.00
Angelus Wheat Mixed Feed.....	Lockport, N. Y.	15.94	13.00	4.10	4.00	65.46	...	4.95	9.49	14.00	14.00
T. & C. Wheat Mixed Feed.....	Buffalo, N. Y.	15.15	14.00	5.38	4.50	64.27	...	5.40	9.80	11.00	11.00
Wheat Bran.....	Buffalo, N. Y.	15.50	14.00	3.90	3.50	63.28	...	6.25	11.07	10.59	12.50
Wheat Middlings.....	Buffalo, N. Y.	16.73	16.00	5.11	4.50	64.94	...	4.71	8.51	9.50	9.50
Victor Spring Wheat Bran.....	Victor, N. Y.	14.80	14.60	5.02	4.00	64.75	51.00	5.98	9.45	15.00	15.00
Victor Spring Wheat Middlings.....	Victor, N. Y.	18.39	17.50	6.07	5.00	60.02	48.00	4.54	10.98	10.00	10.00
Victor Spring Wheat Mixed Feed.....	Victor, N. Y.	15.24	15.00	5.74	4.50	63.93	...	4.90	10.19	10.00	10.00
Pure Crescent Bran.....	Victor, N. Y.	16.55	14.00	4.66	4.00	63.83	50.00	4.72	10.24	11.00	11.00
Pure Crescent Middlings.....	Grand Rapids, Mich.	15.85	14.50	3.41	3.50	64.69	...	4.47	11.58	10.00	10.00
Voigt's Pure Bran.....	Grand Rapids, Mich.	14.19	15.00	3.23	3.50	65.95	...	6.06	10.11	7.99	11.00
Voigt's Pure Cow Feed.....	Grand Rapids, Mich.	14.08	14.00	3.60	3.50	65.98	...	4.96	11.38	7.99	11.00
Voigt's Pure Bran Mixed Feed.....	Grand Rapids, Mich.	16.50	15.50	4.01	4.00	65.48	50.00	5.57	8.44	8.08	10.00
Wagoner-Gates Milling Co.....	Independence, Mo.	16.50	15.50	4.01	4.00	65.48	50.00	5.57	8.44	8.08	10.00

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo- hydrates.		Ash.		Moisture.		Fibre. Crude.	
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
WHEAT FEEDS.—Continued.														
Washburn-Crosby Co.'s Adrian Red Dog Flour.....	Washburn-Crosby Co.....	Minneapolis, Minn....	17.34	16.00	5.25	4.00	64.52	60.00	3.51	....	9.37	....	3.50	4.00
Washburn-Crosby Co.'s Pure Rye Middlings.....	Washburn-Crosby Co.....	Minneapolis, Minn....	15.68	14.00	3.63	3.00	65.44	60.00	4.15	....	11.10	....	....	6.00
Washburn-Crosby Co.'s Wheat Bran	Washburn-Crosby Co.....	Minneapolis, Minn....	14.70	14.50	5.30	4.00	64.54	50.00	6.10	....	9.36	....	10.81	12.00
Washburn-Crosby Co.'s Wheat Bran	Washburn-Crosby Co.....	Minneapolis, Minn....	13.84	13.00	4.10	4.00	64.24	50.00	7.06	....	10.76	....	11.21	13.00
Washburn-Crosby Co.'s Wheat Standard Middlings.....	Washburn-Crosby Co.....	Minneapolis, Minn....	16.20	14.00	5.20	4.00	62.48	52.00	5.50	....	10.62	....	8.50	11.00
Blue Seal Wheat Feed.....	H. K. Webster Co.....	Lawrence, Mass.....	15.94	16.00	4.73	4.00	63.15	....	5.42	....	10.76	....	8.86	7.00
Spring Wheat Bran.....	Western Canada Flour Mills Co.	Davenport, Iowa.....	17.08	14.50	5.63	4.00	65.00	....	5.25	....	7.04	....	7.99	11.00
Hammond Dairy Feed.....	Western Grain Products Co.....	Hammond, Ind.....	16.38	16.50	4.61	3.50	57.64	48.00	9.03	....	12.34	....	14.26	12.00
COTTON SEED MEALS.														
Dove Brand Prime Cotton Seed Meal.....	F. W. Brode & Co.....	Memphis, Tenn.....	39.67	38.63	8.02	6.00	36.54	22.00	5.77	....	10.00	....	....	10.00
Buckeye Good Cotton Seed Meal.....	Buckeye Cotton Oil Co.....	Cincinnati, Ohio.....	37.39	36.00	7.49	5.00	41.29	30.00	6.89	....	6.94	....	....	14.00
Buckeye Prime Cotton Seed Meal.....	Buckeye Cotton Oil Co.....	Cincinnati, Ohio.....	39.49	38.62	6.94	6.00	42.89	....	5.36	....	5.32	....	....	12.00
The Veribest Brand Cotton Seed Meal.....	S. P. Davis.....	Little Rock, Ark.....	41.42	38.50	5.90	6.00	40.05	....	5.97	....	6.66	....	....	10.00
East St. Louis Brand Cotton Seed Meal.....	East St. Louis Cotton Oil Co.....	Nat. Stock Yards, Ill.	38.35	38.50	7.65	6.00	39.47	....	6.46	....	8.07	....	....	12.00
Cotton Seed Meal.....	(Sold by) Farmington Cash Store	Farmington, N. H.....	31.44	....	7.56	....	48.91	....	5.63	....	6.46	....	....	....
Bull Brand Cotton Seed Meal.....	Humphreys-Godwin Co.....	Memphis, Tenn.....	40.11	41.00	6.57	6.00	37.70	26.00	6.46	....	9.16	....	9.90	10.00
Danish Brand Cotton Seed Meal.....	Humphreys-Godwin Co.....	Memphis, Tenn.....	35.81	36.00	7.24	5.00	43.38	20.00	6.44	....	7.13	....	....	15.00
Dixie Brand Cotton Seed Meal.....	Humphreys-Godwin Co.....	Memphis, Tenn.....	38.61	38.62	7.71	6.00	37.78	24.00	5.95	....	9.95	....	....	12.00
Forfat Brand Cotton Seed Meal.....	Humphreys-Godwin Co.....	Memphis, Tenn.....	36.08	38.55	6.27	6.00	43.07	24.00	6.23	....	8.35	....	....	12.00
Cotton Seed Meal.....	(Sold by) C. S. Langley & Son	Durham, N. H.....	35.55	....	7.26	....	42.64	....	5.67	....	8.88	....	15.01	....
Kineda Prime Cotton Seed Meal.....	J. M. MacDonald.....	1914 Union Central Bldg., Cincinnati, O.	39.49	38.60	6.78	6.00	40.94	22.00	4.71	....	8.08	....	12.60	12.00
Dirigo Brand Cotton Seed Meal.....	W. Newton Smith.....	Baltimore, Md.....	31.09	38.50	5.60	7.00	50.02	....	5.93	....	7.36	....	....	10.50
Pilgrim Cotton Seed Meal.....	J. E. Soper Co.....	Boston Mass.....	40.02	38.50	9.04	5.00	36.87	....	6.56	....	7.51	....	....	10.00
Pioneer Cotton Seed Meal.....	J. E. Soper Co.....	Boston Mass.....	41.86	41.00	7.10	7.00	36.57	....	5.89	....	8.58	....	....	10.00
Puritan Cotton Seed Meal.....	J. E. Soper Co.....	Boston Mass.....	36.10	36.00	5.60	5.00	44.85	30.00	6.68	....	6.77	....	....	15.00
Number 7 Cotton Seed Feed Meal.....	Union Seed & Fert. Co.....	New York, 27 Beaver St.....	34.85	36.00	6.36	5.50	44.85	26.00	5.32	....	8.62	....	....	14.00
Security Brand Cotton Seed Feed Meal.....	Union Seed & Fert. Co.....	Pine Bluff, Ark.....	36.42	36.00	6.61	5.50	41.96	27.00	6.52	....	8.48	....	....	14.00
American Red Tag Cotton Seed Meal.....	Union Seed & Fert. Co.....	Argenta, Ark.....	38.80	38.55	5.88	7.00	42.58	....	5.38	....	7.36	....	12.00	11.50
Jersey Brand Cotton Seed Meal.....	Lanier Bros.....	Nashville, Tenn.....	39.84	38.62	9.44	6.00	37.64	22.00	6.07	....	7.01	....	....	10.00

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.	Carbo- hydrates.		Ash.		Moisture.		Fibre. Crude	
			Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
POULTRY FEEDS.—Continued.													
Schumacher Poultry Mash.....	The Quaker Oats Co.....	Chicago, Ill.....	18.00	17.50	4.68	4.00	61.10	52.00	5.54	10.68	.....	9.47	10.00
Purina Chicken Chowder Feed.....	Ralston Purina Co., Inc.....	St. Louis & Buffalo..	19.96	19.00	5.48	4.00	58.70	56.00	7.70	8.16	.....	12.00	9.00
Stratton & Co.'s Egg Mash.....	Stratton & Co.....	Concord, N. H.....	16.73	15.00	4.94	3.00	61.68	55.00	5.22	11.43	.....	8.15	10.00
Stratton & Co.'s H. Poultry Mash	Stratton & Co.....	Concord, N. H.....	19.18	16.00	6.90	.....	59.15	.....	6.82	7.95	.....	.....	.....
Dry Mash for Poultry.....	H. K. Webster Co.....	Lawrence, Mass.....	16.73	20.00	4.33	3.00	61.91	.....	18.16	8.87	.....	6.14	10.00
DAIRY FEEDS.													
Empire State Dairy Feed.....	American Milling Co.....	Peoria, Ill.....	31.88	30.00	11.45	12.00	50.22	30.00	1.56	4.89	.....	13.75	14.00
Lactola Dairy Feed.....	Chapin & Co.....	Hammond, Ind.....	17.08	16.50	5.47	3.00	58.37	50.00	6.02	13.06	.....	11.67	12.00
Union Dairy Ration.....	Chapin & Co.....	Hammond, Ind.....	27.67	26.00	7.36	5.50	52.06	50.00	4.96	7.95	.....	14.05	10.00
Wichmore Bal. Ration for Milch	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cows.....	Chas. M. Cox Co.....	Boston, Mass.....	24.52	25.50	5.16	5.20	56.85	.....	4.59	8.88	.....	10.93	9.50
Crosby's Ready Ration.....	E. Crosby & Co.....	Brattleboro, Vt.....	24.93	25.00	6.90	7.00	57.44	50.00	4.73	6.00	.....	12.11	9.00
H. & S. Horse, Mule & Dairy Feed	Dwight E. Hamlin.....	Pittsburgh, Pa.....	16.23	.....	4.34	.....	62.94	.....	6.70	9.69	.....	12.41	.....
Larro Feed.....	The Larrore Milling Co.....	Detroit, Mich.....	20.93	20.00	3.60	3.00	60.08	50.00	4.01	11.38	.....	13.40	14.00
The H. O. Co.'s Algrane Milk Feed	H. O. Mills.....	Buffalo, N. Y.....	17.00	14.00	3.86	4.00	64.76	.....	5.81	8.57	.....	14.42	10.00
Stevens 44 Dairy Ration.....	Oswego Mill Co. (by) The Park & Pollard Co.....	Boston, Mass.....	24.80	24.00	7.40	5.00	53.36	.....	5.75	8.69	.....	12.67	14.00
Protena Dairy Feed.....	Ralston Purina Co., Inc.....	St. Louis & Buffalo..	14.80	.....	4.35	.....	61.88	.....	8.00	10.97	.....	14.02	.....
R-E-A-L a bal. Ration for Dairy	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cows.....	F. B. Spaulding Co.....	Lancaster, N. H.....	24.69	24.00	5.97	6.00	56.27	50.00	4.63	8.44	.....	9.97	6.00
Union Grains (Ubico) Biles Ready	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dairy Ration.....	The Ubico Milling Co.....	Cincinnati, Ohio.....	25.04	24.00	7.64	7.00	53.24	50.00	5.84	8.24	.....	10.15	9.00
MISCELLANEOUS COMPOUND- ED FEEDS.													
Portage Stock Feed.....	The Akron Feed & Milling Co.....	Akron, Ohio.....	9.19	10.00	4.90	4.00	73.17	.....	3.82	8.92	.....	12.65	10.00
Pennant Stock Feed.....	E. W. Bailey & Co.....	Swanton, Vt.....	11.60	10.00	5.88	6.50	69.15	.....	3.94	9.43	.....	9.56	10.00
Bufenco Stock Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.....	10.61	10.00	5.03	5.00	72.67	.....	4.53	7.16	.....	13.79	10.00
Bufenco Horse Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.....	11.30	11.00	4.00	4.00	72.02	.....	3.52	9.16	.....	11.22	9.00
Corno Stock Feed.....	Corno Mills Co.....	St. Louis, Mo.....	8.84	9.00	6.57	3.50	69.44	60.00	4.17	10.78	.....	12.97	10.00
Charlesstock Feed.....	Chas. M. Cox Co.....	Boston, Mass.....	9.54	6.00	5.57	3.00	72.17	.....	3.94	8.78	.....	13.75	16.00
Wichmore Stock Feed.....	Chas. M. Cox Co.....	Boston, Mass.....	10.68	9.00	5.32	4.00	71.57	60.00	4.43	8.00	.....	9.80	9.50
Crosby's Stock Food.....	E. Crosby & Co.....	Brattleboro, Vt.....	16.16	9.00	5.13	4.00	73.37	60.00	3.67	8.67	.....	12.32	10.00
Quality Stock Feed.....	J. Cushing & Co.....	Fitchburg, Mass.....	9.19	9.00	7.80	6.00	73.33	61.00	3.36	6.32	.....	9.07	9.00
Stock Feed.....	John W. Eschelman.....	Lancaster, Pa.....	10.68	10.00	4.49	3.00	69.75	.....	4.90	10.18	.....	10.39	9.00
Grandin's Stock Food.....	D. H. Grandin Milling Co.....	Jamestown, N. Y.....	9.37	8.50	6.40	4.00	70.57	50.00	3.76	9.90	.....	11.30	13.00
Haskell's Stock Feed.....	W. H. Haskell & Co.....	Toledo, Ohio.....	10.94	9.00	6.67	6.00	69.85	61.00	3.38	9.16	.....	9.42	9.00

MISCEL. FEEDS.—Continued.

Holsten Feed.....	Indiana Milling Co.....	Terre Haute, Ind.....	12.08	12.00	3.59	3.00 69.69	5.07	9.57	17.66	16.00
Sterling Feed.....	Indiana Milling Co.....	Terre Haute, Ind.....	9.89	10.00	2.96	3.00 72.51	4.74	9.90	16.15	16.00
The H. O. Co.'s New England Stock Feed.....	Il. O. Mills.....	Buffalo, N. Y.....	10.51	9.00	4.66	4.00 73.25	5.16	6.42	11.38	10.00
The Park & Pollard Co. Stock Feed	The Park & Pollard Co.....	Boston, Mass.....	9.15	9.00	3.47	1.50 72.82	2.65	11.01	11.41	12.00
Schumacher Stock Feed.....	The Quaker Oats Co.....	Chicago, Ill.....	10.24	10.00	3.81	3.25 72.83	3.72	9.40	12.44	10.00
Victor Feed.....	The Quaker Oats Co.....	Chicago, Ill.....	9.54	8.00	3.32	3.00 74.22	3.11	9.81	11.17	12.00
White Diamond Feed.....	The Quaker Oats Co.....	Chicago, Ill.....	9.49	8.00	2.28	3.25 74.00	2.51	11.72	9.21	9.00
Blue Grass Valley Feed.....	A. Waller & Co.....	Henderson, Ky.....	10.51	9.00	2.38	2.00 71.77	4.00	11.34	17.22	17.00
ALFALFA AND CLOVER MEALS.										
Banner Brand Cut Clover.....	Joseph Breck & Sons Corp.....	Boston, Mass.....	8.14	7.91	2.16	3.36 73.86	7.41	8.43	29.84	
Alfalfa Meal.....	The Denver Alfalfa Milling & Products Co.....	Chicago, Ill.....	16.50	.....	1.50	65.33	9.00	7.67	32.00	35.00
Pure Alfalfa Meal.....	The Albert Dickinson Co.....	St. Louis, Mo.....	15.41	12.00	2.06	1.00 63.94	8.92	9.67	35.00	35.00
Alfalfa.....	National Feed Co.....	Boston, Mass.....	15.54	14.00	2.43	1.25 65.35	8.35	8.33	29.55	33.00
Red Star Brand Alfalfa Meal.....	The Park & Pollard Co.....	San Francisco, Cal.....	14.28	12.00	2.08	15.00 67.92	9.71	6.01	30.00	
Otto Weiss Alfalfa Meal.....	Somers & Co., 240 Cal. St.....	Wichita, Kas.....	16.90	15.00	2.73	1.40 67.35	5.75	7.27	29.50	
CALF MEALS.	The Otto Weiss Alfalfa Stock Food Co.....	Wichita, Kas.....	11.30	14.00	1.80	1.50 67.01	35.00	8.29	33.71	30.00
Blatchford's Calf Meal.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.....	21.37	24.00	5.55	5.00 51.51	51.00	5.48	6.18	6.75
Schumacher Calf Meal.....	The Quaker Oats Co.....	Chicago, Ill.....	20.14	19.00	7.98	8.00 59.21	4.14	8.53	3.00	
Ryde's Cream Calf Meal.....	Ryde & Co.....	Chicago, Ill.....	22.03	25.00	4.97	5.00 55.51	5.69	10.77	8.64	6.00
DRIED BEET PULP.										
Dried Beet Pulp.....	The Larrowe Milling Co.....	Detroit, Mich.....	10.61	8.00	0.43	0.50 80.05	58.00	2.97	18.97	20.00
Dried Beet Pulp.....	Monominee River Sugar Co.....	Monominee, Mich.....	7.62	8.00	0.41	0.50 80.25	58.00	2.12	19.19	20.00
Dried Beet Pulp.....	West Bay City Sugar Co.....	Bay City, Mich.....	9.72	8.00	0.33	0.50 83.19	4.61	2.50	20.00	20.00
Dried Beet Pulp.....	Chas. Pope.....	Chicago, Ill.....	9.10	8.00	0.89	0.30 68.25	50.00	9.11	19.52	20.00
Dried Beet Pulp.....	Michigan Sugar Co.....	Saginaw, Mich.....	9.72	8.00	0.97	0.50 77.55	58.00	3.61	2.50	20.00
Dried Beet Pulp.....	Michigan Sugar Co.....	Saginaw, Mich.....	10.16	8.00	0.68	0.50 71.80	58.00	2.87	2.50	11.19
Dried Beet Pulp.....	Continental Sugar Co.....	Blissfield, Mich.....	9.52	8.00	0.50	0.50 71.12	58.00	2.66	2.50	12.90
Dried Beet Pulp.....	The Hottelet Co.....	Millwaukee, Wis.....	8.23	8.00	0.48	0.50 76.30	60.00	2.56	12.43	19.19
Dried Beet Pulp.....	Michigan Sugar Co.....	Bay City, Mich.....	9.37	8.00	0.51	0.50 76.66	58.00	2.87	10.57	17.60
Dried Beet Pulp.....	Michigan Sugar Co.....	Saginaw, Mich.....	8.80	8.00	0.96	0.50 71.16	58.00	2.63	2.50	18.97
Dried Beet Pulp.....	Owosso Sugar Co.....	Owosso, Mich.....	10.33	8.00	0.47	0.50 79.98	58.00	2.91	6.31	18.00
Dried Beet Pulp.....	Holland-St. Louis Sugar Co.....	Detroit, Ind.....	9.63	8.00	0.35	0.50 80.31	58.00	3.50	6.18	20.00
BREWERS' AND DISTILLERS' GRAINS.										
Alax Flakes.....	Alax Milling & Feed Co.....	Hammond, Ind.....	32.23	30.00	10.17	10.00 48.34	30.00	2.39	17.82	14.00
Burkhardt's Dried Grains.....	Burkhardt.....	Roxbury Sta., Mass.....	25.04	25.00	5.71	5.00 59.62	.....	2.86	18.80	15.00
Bourbon D3 Dewey's Dist. Dried Grains.....	The Dewey Bros. Co.....	Blanchester, Ohio.....	24.26	24.00	9.16	8.00 57.32	40.00	3.29	14.86	14.00
Dewey's Dist. Dried Grains Corn D3.....	The Dewey Bros. Co.....	Blanchester, Ohio.....	26.27	26.00	10.70	9.00 58.00	30.00	4.12	13.57	13.00

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo- hydrates.		Ash.		Moisture.		Crude Fibre.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
BREWERS' GRAINS.—Continued.																
Eagle D3 Dewey's Distillers' Dried Grains.....	The Dewey Bros. Co.....	Blanchester, Ohio.....	30.21	.....	13.12	.....	47.58	.....	1.75	.....	7.34	.....	9.57	13.00		
Bull Brand Dried Brewers' Grains	Farmers' Feed Co.....	New York, N. Y.....	29.33	27.20	5.70	6.30	55.30	.....	3.86	.....	5.81	.....	14.99	15.20		
Fleischmann's Dried Grains, F. M. Co.....	The Fleischmann Co.....	Peekskill, N. Y.....	20.23	20.00	7.91	7.00	62.64	.....	2.38	.....	6.84	.....	17.07	19.00		
Brewers' Grains.....	Haffenreffer & Co.....	Boston, Mass.....	27.32	20.50	5.61	4.00	58.15	.....	3.52	.....	5.40	.....	13.88	19.00		
Hector Distillers' Dried Grains.....	The Hottelet Co.....	Milwaukee, Wis.....	32.14	30.00	9.15	10.00	48.76	.....	1.61	.....	8.34	.....	12.66	14.00		
Holstein Brewers' Dried Grains.....	The Hottelet Co.....	Milwaukee, Wis.....	25.66	25.00	6.72	5.00	56.52	.....	3.88	.....	7.72	.....	14.83	14.00		
Fourex Dist. Dried Corn Grains.....	The Ubico Milling Co.....	Cincinnati, Ohio.....	29.16	31.00	10.88	12.00	45.07	.....	3.70	.....	11.09	.....	12.13	13.00		
GLUTEN FEEDS.																
Cream of Corn Gluten Feed.....	American Maize Products Co.....	New York, N. Y.....	20.49	24.00	2.91	1.50	66.00	.....	3.01	.....	7.59	.....	8.12	8.00		
Clinton Corn Gluten Feed.....	Clinton Sugar Refining Co.....	Clinton, Iowa.....	24.75	23.00	3.17	3.00	60.85	.....	1.67	.....	9.56	.....	8.34	8.00		
Continental Gluten Feed.....	Continental Cereal Co.....	Peoria, Ill.....	28.98	29.00	11.85	10.00	50.07	.....	4.02	.....	5.08	.....	6.07	10.00		
Buffalo Corn Gluten Feed.....	Corn Products Refining Co.....	New York, N. Y.....	25.44	23.00	3.06	1.00	57.72	.....	5.44	.....	8.34	.....	8.15	8.50		
Crescent Corn Gluten Feed.....	Corn Products Refining Co.....	New York, N. Y.....	28.88	23.00	2.22	1.00	54.86	.....	3.41	.....	10.63	.....	7.83	8.50		
Diamond Corn Gluten Meal.....	Corn Products Refining Co.....	New York, N. Y.....	42.91	40.00	0.89	1.00	48.95	.....	1.40	.....	5.85	.....	3.75	4.00		
Globe Corn Gluten Feed.....	Corn Products Refining Co.....	New York, N. Y.....	21.78	23.00	3.10	1.00	58.65	.....	3.54	.....	9.93	.....	8.13	8.50		
Douglas Corn Gluten Feed.....	Douglas Company.....	Cedar Rapids, Iowa.....	24.91	23.00	0.90	1.00	58.44	52.00	4.77	.....	10.98	.....	6.77	8.00		
Jenks' Corn Gluten Feed.....	The Huron Milling Co.....	Harbor Beach, Mich.....	21.34	22.00	2.95	3.00	63.95	.....	2.77	.....	6.19	.....	9.28	8.00		
Staley's Corn Gluten Feed.....	A. E. Staley Mfg. Co.....	Decatur, Ill.....	24.43	23.00	2.85	2.50	60.56	.....	4.01	.....	8.15	.....	9.16	12.00		
FLAXSEED MEALS.																
Anco Old Process Linseed Meal.....	American Milling Co.....	Peoria, Ill.....	31.53	30.00	7.00	5.00	46.21	.....	6.06	.....	9.20	.....	10.00	.....		
Linseed Oil Meal.....	American Linseed Co.....	Chicago, Ill.....	37.65	36.00	3.40	2.00	43.96	.....	5.41	.....	9.58	.....	9.00	.....		
American Linseed Oil Meal.....	American Linseed Co.....	Buffalo, Ill.....	36.16	34.00	6.06	5.00	43.56	.....	5.10	.....	9.12	.....	8.00	.....		
Old Process Linseed Oil Meal.....	The Toledo Seed & Oil Co.....	Toledo, Ohio.....	34.15	30.00	6.52	5.00	44.27	.....	5.56	.....	9.50	.....	8.99	10.00		
Old Process Oil Meal.....	American Linseed Co.....	New York, N. Y.....	34.06	34.00	6.93	5.00	42.41	.....	5.95	.....	11.65	.....	7.00	8.00		
Pure Old Process Oil Meal.....	Spencer Kellogg & Sons, Inc.....	Buffalo, N. Y.....	35.99	33.00	6.12	5.00	43.15	.....	5.46	.....	9.28	.....	9.16	10.00		
Old Process Ground Oil Cake.....	Archer Daniels Linseed Co.....	Buffalo, N. Y.....	32.40	33.00	7.80	6.00	46.82	.....	4.14	.....	8.84	.....	9.38	10.00		
MEAT AND BONE FEEDS.																
Ground Meat Scraps AA.....	The Am. Agri. Chem. Co.....	New York, N. Y.....	49.74	45.00	11.42	.....	.....	.....	33.87	.....	9.94	.....	.....	.....		
Protox Pure Ground Meat Scraps AA.....	The Am. Agri. Chem. Co.....	New York, N. Y.....	55.69	55.00	13.00	10.00	.....	.....	25.47	.....	6.37	.....	.....	.....		
Fish Scraps.....	American Glue Co.....	Boston, Mass.....	50.00	50.00	1.32	2.00	.....	.....	3.75	.....	8.22	.....	.....	.....		

MEAT AND BONE FEEDS.—Cont.									
Beach's Star Brand Meat & Bone Meal.....	Beach Soap Co.....	Lawrence, Mass.....	30.29	30.00	8.84	10.00	47.78	8.48	.....
Beach's Star Brand Pure Bone Meal.....	Beach Soap Co.....	Lawrence, Mass.....	10.59	10.00	7.69	8.00	72.39	2.40	.....
Beach's Superior Beef Scraps.....	Beach Soap Co.....	Lawrence, Mass.....	52.45	50.00	16.75	15.00	22.40	8.74	.....
Beef Scraps.....	Beach Soap Co.....	Lawrence, Mass.....	41.70	40.00	13.46	10.00	18.12	9.05	.....
Breck's Dry Ground Fish Meal for Poultry Food.....	Jos. Breck & Sons Corp.....	Boston, Mass.....	52.10	45.00	1.56	2.50	30.00	31.42	10.99
Breck's Ground Beef Scraps.....	Jos. Breck & Sons Corp.....	Boston, Mass.....	43.52	43.00	12.34	12.00	28.72	8.72	.....
Burlington Poultry Feed.....	Burlington Rend. Co.....	Burlington, Vt.....	37.21	40.00	10.19	8.00	36.30	6.32	.....
Butchers' Poultry Feed.....	Butchers' Rend. Co.....	Fall River, Mass.....	47.79	40.00	11.07	10.00	32.59	7.32	.....
Darling's Meat Crisps.....	Darling & Co.....	Chicago, Ill.....	76.62	75.00	7.31	5.00	11.02	8.17	.....
Ground Beef Scraps.....	John C. Dow Co.....	Boston, Mass.....	47.63	43.00	13.68	12.00	2.84	8.70	.....
Greene's Meat Mash for Poultry.....	The Greene Chicken Feed Co.....	Marblehead, Mass.....	12.26	12.00	4.93	3.00	59.16	7.79	6.90
Greene's Old Fashioned Meat Scraps for Poultry.....	The Greene Chicken Feed Co.....	Marblehead, Mass.....	20.03	35.00	7.37	5.00	139.08	14.79	.....
Greene's Poultry Scraps.....	The Greene Chicken Feed Co.....	Marblehead, Mass.....	24.43	40.00	8.77	3.00	56.33	8.54	.....
Meat Scraps.....	W. D. Higgins.....	Framingham, Mass.....	39.67	40.00	16.02	12.00	3.19	6.32	3.19
Bone & Meat Meal.....	Hinckley Rend. Co.....	Somerville, Mass.....	38.26	35.00	9.76	8.00	4.25	6.09	.....
Red Star Brand Fish Scraps.....	International Glue Co.....	Boston, Mass.....	47.54	45.00	1.25	2.00	12.62	7.62	12.62
Peerless Poultry Feed.....	Lowell Rend. Co.....	Lowell, Mass.....	49.83	40.00	11.10	8.00	25.68	5.57	.....
Manchester Bone & Meat Meal for Poultry.....	Manchester Rend. Co.....	Manchester, N. H.....	35.00	35.00	12.92	8.00	36.99	7.94	.....
Manchester Cracked Bone for Poultry.....	Manchester Rend. Co.....	Manchester, N. H.....	25.74	20.00	6.31	5.00	5.96	7.05	.....
Manchester Poultry Feed.....	Manchester Rend. Co.....	Manchester, N. H.....	45.80	40.00	10.80	8.00	32.92	11.26	.....
Marsh's Pure Ground Scraps for Poultry.....	The Geo. E. Marsh Co.....	Lynn, Mass.....	41.59	40.00	10.38	10.00	34.50	9.13	.....
Blue Ribbon Meat Scraps.....	The Park & Pollard Co.....	Boston, Mass.....	45.88	45.00	12.39	13.00	4.17	10.46	.....
Portland Bone Meal.....	Portland Rend. Co.....	Portland, Me.....	22.77	20.00	5.73	5.00	59.78	7.46	.....
Portland Cracked Bone for Poultry.....	Portland Rend. Co.....	Portland, Me.....	22.77	10.00	4.95	5.00	59.96	5.96	.....
Portland Poultry Feed.....	Portland Rend. Co.....	Portland, Me.....	40.19	40.00	10.59	8.00	37.99	5.57	.....
Shay's Beef Scraps.....	C. M. Shay Co.....	Groton, Conn.....	42.56	40.00	13.62	10.00	31.94	6.94	.....
Whitman & Pratt's Animal Meal.....	Whitman & Pratt Rend. Co.....	Lowell, Mass.....	35.90	33.00	9.57	10.00	35.50	16.31	.....
Whitman & Pratt's Beef Scraps.....	Whitman & Pratt Rend. Co.....	Lowell, Mass.....	48.51	45.00	10.29	10.00	32.72	7.73	.....
J. Cushing & Co. Poultry Feed.....	Worcester Rend. Co.....	Auburn, Mass.....	43.95	40.00	12.60	8.00	27.03	7.05	.....
Royal Worcester Poultry Feed.....	Worcester Rend. Co.....	Auburn, Mass.....	43.17	40.00	11.59	8.00	31.47	6.54	.....
OAT FEEDS.									
Oat Feed.....	Robin Hood Mills, Ltd.....	Moose Jaw, Can., etc.....	6.66	5.25	2.89	2.50	76.71	8.44	26.64
Purity Reground Oat Hulls.....	Purity Oats Co.....	Davenport, Iowa.....	9.89	6.73	2.11	2.71	77.88	6.67	28.66
PROVENDERS.									
Provender.....	J. C. Richardson.....	Littleton, N. H.....	10.86	.....	3.90	.....	70.19	11.71	5.31
Provender.....	Moulton & Clark.....	Lisbon, N. H.....	10.59	.....	4.33	.....	78.71	9.57	6.16
Stratton & Co.'s Provender.....	Stratton & Co.....	Concord, N. H.....	11.03	.....	5.31	.....	67.89	12.83	6.94

CERTIFIED COMPOSITION OF COMPOUNDED BRANDS.

Name.	Manufactured by.	Address.	Certified to Contain.
MOLASSES FEEDS.			
Surume Dairy Feed.....	American Milling Co.....	Peoria, Ill.	Molasses, cottonseed meal, corn, gluten feed, ground and bolted grain screenings, clipped oat by-product, corn, dried grains and salt.
Clover Leaf Dairy Feed.....	Clover Leaf Milling Co.....	Buffalo, N. Y.	(Cottonseed meal, corn, gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, speltz taken from grain screenings, cocoa shell meal, clipped by-product, molasses, $\frac{1}{2}$ of 1% salt.
Corno Sweet Feed.....	The Corno Mills Co.....	St. Louis, Mo.	Whole oats, ground alfalfa, cracked corn, cottonseed meal, molasses.
International Special Dairy Feed..	International Sugar Feed Co.....	Minneapolis, Minn.	Cotton seed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings.
International Special Dan Patch Horse Feed.....	International Sugar Feed Co.....	Minneapolis, Minn.	Oats, barley, cracked corn, ground alfalfa, cane molasses, and salt.
The Park & Pollard Co. Horse Feed	The Park & Pollard Co.....	Boston, Mass.	Alfalfa, corn, oats, molasses, salt.
Quaker Dairy Feed with Molasses..	The Quaker Oats Co.....	Chicago, Ill.	Molasses, malt sprouts, cottonseed meal, ground grain screenings, new process linseed oil meal, oatmeal mill by-product, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1% salt.
Purina Cow Chow Feed.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Cottonseed meal, gluten feed, brewers' grain, molasses, ground alfalfa, 1% salt.
Purina Feed with Molasses.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Cracked corn, oats, ground alfalfa, molasses, 1% salt.
Purina O-Molene Feed.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Corn, oats, ground alfalfa meal, molasses, 1% salt.
Purina Sweet Feed.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	(ground alfalfa, molasses, 1% salt.
Extra-Vim Feed	Xtravim Molasses Feed Co.....	Boston, Mass.	Pure cane sugar, molasses, sphagnum moss.
POULTRY FEEDS.			
Globe Egg Mash.	The Albert Dickinson Co.....	Chicago, Ill.	Wheat bran, wheat middlings, alfalfa meal, corn, bran, corn feed meal, linseed oil cake, meat scraps, $\frac{1}{2}$ of 1% of salt.
Queen Poultry Mash.....	The Albert Dickinson Co.....	Chicago, Ill.	Alfalfa meal, corn feed meal, wheat meal, ground corn, bran, wheat bran, meat scraps, linseed oil cake, $\frac{1}{2}$ of 1% salt.
Blatchford's Milk Mash.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.	Blatchford's calf meal, also bone, corn and oat meals wheat middlings beef scrap, fish and powdered limestone.
Bufaceo Poultry Mash.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Ground corn, wheat bran, middlings, hominy feed, corn, gluten feed, oat middlings, rolled oats.
Wirthmore Growing Feed (with scraps)	Chas. M. Cox Co.....	Boston, Mass.	Ground wheat, corn, oats, barley, peas, maize, beet pulp, wheat middlings salt, choice fine ground beef scraps.

Wirthmore Poultry Mash (all grain).....	Chas. M. Cox Co.....	Boston, Mass.	Ground oats, ground barley, gluten feed, alfalfa meal, wheat bran, ground corn, wheat middlings, % of 1% salt.
Wirthmore Poultry Mash (fish and scrap).....	Chas. M. Cox Co.....	Boston, Mass.	Ground oats, ground barley, gluten feed, alfalfa meal, wheat bran, ground corn, beef scraps, fish meal, wheat middlings, % of 1% salt.
E. A. Cowen's Climax Poultry Mash Laying Mash for More Eggs.....	E. A. Cowen Est. John W. Eschelmann.....	Worcester, Mass. Lancaster, Pa.	20% fish and beef scraps, gluten meal, cottonseed meal, oil cake meal, alfalfa meal, corn meal, wheat bran, wheat middlings, ground grain screenings, oat chop, hominy feed.
Hen-E-Ta.....	Hen-E-Ta Bone Co.....	Blairsville, Pa.	Corn meal, corn gluten feed, wheat middlings, wheat bran, old process linseed oil meal, Hen-E-Ta composed of phosphorus, silica, lime and soda. Phosphorus 2% to 6% bone ash.
Hen-O-La, Dry Mash.....	Hen-E-Ta Bone Co.....	Newark, N. J.	Beef scraps, fish meal, alfalfa meal, corn oil meal, bran middlings, hominy, crushed oats, salt.
Purity H. Poultry Mash.....	Wm. S. Hills Co.....	Boston, Mass.	Wheat and wheat by-products, corn and corn by-products, gluten feed, alfalfa meal, barley meal, oil meal, a small amount of salt.
Poultry Mash.....	McQuesten & Lewis.....	Manchester, N. H.	Ground corn, ground wheat, ground barley, ground oats, meat, bone, alfalfa, kafir corn, wheat bran, wheat middlings, buckwheat, beet pulp, calcium carbonate, salt.
Growing Feed.....	The Park & Pollard Co.....	Boston, Mass.	Ground commercial wheat bran, commercial wheat middlings, corn, wheat, oats and barley, kafir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate.
Lay or Bust Dry Mash.....	The Park & Pollard Co.....	Boston, Mass.	Hominy feed, ground barley, cottonseed meal, wheat, mixed feed, rye shorts.
American Poultry Feed.....	The Quaker Oats Co.....	Chicago, Ill.	Meat scraps, oat meal, wheat, yellow hominy feed, screenings, alfalfa meal, yellow hominy feed, corn, gluten feed, ground grain screenings.
Schumacher Poultry Mash.....	The Quaker Oats Co.....	Chicago, Ill.	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, 1% salt, granulated meal, charcoal.
Purina Chicken Chowder Feed.....	Ralston Purina Co., Inc.....	St. Louis & Buffalo.	Wheat bran, wheat middlings, alfalfa meal, corn bran, corn feed meal, linseed oil cake, meat scraps, ½ of 1% salt.
Stratton & Co.'s Egg Mash.....	Stratton & Co.....	Concord, N. H.	Beef scraps, alfalfa meal, middlings, bran, corn meal, chick cracked corn, crushed oats.
Stratton's H. Poultry Mash.....	Stratton & Co.....	Concord, N. H.	Wheat feed, corn meal, gluten feed, rolled oats, beef scraps, beet pulp, oil meal, hen-eta bone.
Dry Mash for Poultry.....	H. K. Webster Co.....	Lawrence, Mass.	Corn, distillers' dried grains.
DAIRY FEEDS.			Choice cottonseed meal, corn, distillers' grains, clipped oat by-product, corn gluten feed, corn germ meal, ivory nut meal, brewers' grains, cane molasses, salt.
Empire State Dairy Feed.....	American Milling Co.....	Peoria, Ill.	
Lactola Dairy Feed.....	Chapin & Co.....	Hammond, Ind.	

Name.	Manufactured by.	Address.	Certified to Contain.
Unicorn Dairy Ration.....	Chapin & Co.....	Hammond, Ind.	Corn, distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-products with corn bran, brewers' grains and salt.
Wirthmore Bal. Ration for Milch Cows.....	Chas. M. Cox Co.....	Boston, Mass.	
Crosby's Ready Ration.....	E. Crosby & Co.....	Brattleboro, Vt.	
H. & S. Horse, Mule & Dairy Feed.....	Dwight E. Hamlin.....	Pittsburgh, Pa.	Cottonseed meal, linseed meal, gluten feed, distillers' grains, bran, malt sprouts, hominy or corn meal, $\frac{3}{4}$ of 1% salt.
Larroe Feed.....	The Larroe Milling Co.....	Detroit, Mich.	
The H. O. Co.'s Algrane Milk Feed.....	H. O. Mills.....	Buffalo, N. Y.	Cottonseed meal, corn gluten feed, dried distillers' grain, dried beet pulp, standard wheat bran, standard wheat middlings, $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.
Stevens 44 Dairy Ration.....	Oswego Mill Co., (By) The Park & Pollard Co., Boston, Mass.		Oat hulls, wheat middlings, cottonseed meal, oat shorts, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses, $\frac{1}{2}$ of 1% salt.
Protena Dairy Feed.....	Ralston Purina Co., Inc.....	St. Louis & Buffalo.	Oil meal, hominy meal, cottonseed meal, buckwheat middlings, winter wheat, bran, gluten feed, corn meal, brewers' grains, coconut oil meal, pea meal, corn germ meal, distillers' grains, ground barley, wheat middlings, salt.
Re-A-L a bal. Ration for Dairy Cows.....	F. B. Spaulding Co.....	Lancaster, N. H.	
Union (Grains) Ready Dairy Ration.....	The Ubico Milling Co.....	Cincinnati, Ohio.	Standard wheat bran, corn meal gluten and cottonseed meal, linseed oil meal, distillers' grains. Fourx corn, distillers' grains, cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' grains, barley, malt sprouts, 1% salt.
MISCELLANEOUS COMPOUND-ED FEEDS.			
Portage Stock Feed.....	The Akron Feed & Milling Co.....	Akron, Ohio.	Either white or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, $\frac{1}{2}$ of 1% salt. Fine white hominy and oat by-products.
Pennant Stock Feed.....	E. W. Bailey & Co.....	Swanton, Vt.	
Bufeco Stock Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Ground corn, oats and barley, wheat middlings, corn gluten feed, hominy feed, oat shorts, oat middlings, oat hulls, $\frac{1}{2}$ of 1% salt.
Bufeco Horse Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Ground oats, ground corn, ground barley, wheat middlings, hominy feed, oat shorts, oat middlings, oat hulls, linseed meal, corn gluten feed.
Corno Stock Feed.....	Corno Mills Co.....	St. Louis, Mo.	Mixture of oat feed and hominy feed.

Charlestock Feed	Chas. M. Cox Co.....	Boston, Mass.	Oat feed, oat meal, mill by-products, oat shorts, oat middlings, oat hulls, hominy or corn meal, $\frac{1}{2}$ of 1% salt.
Wirthmore Stock Feed	Chas. M. Cox Co.....	Boston, Mass.	Ground barley, ground oats, ground corn, hominy meal, oat meal mill by-products, oat middlings, oat shorts, oat hulls, $\frac{1}{2}$ of 1% salt.
Crosby's Stock Feed.....	E. Crosby & Co.....	Brattleboro, Vt.	Ground barley, ground hominy feed, ground oats, oat feed.
Quality Stock Feed	J. Cushing & Co.....	Fitchburg, Vt.	Ground oats, corn meal, hominy feed, oat shorts, oat hulls and salt.
Stock Feed	John W. Eschelmann.....	Lancaster, Pa.	Oat middlings, rye middlings, cottonseed meal, wheat middlings, corn meal, ground grain screenings, oat hulls, hominy feed.
Grandin's Stock Food	D. H. Grandin Milling Co.....	Jamestown, N. Y.	Hominy feed, oat meal mill by-products, oat middlings, oat hulls, oat shorts, salt.
Haskell's Stock Feed.....	W. H. Haskell & Co.....	Toledo, Ohio.	Ground corn, ground oats, hominy feed, oat hulls, oat shorts, and salt.
Holstein Feed.....	Indiana Milling Co.....	Terre Haute, Ind.	Wheat bran with ground screenings not exceed mill run, cob meal.
Sterling Feed	Indiana Milling Co.....	Terre Haute, Ind.	Wheat bran with ground screenings not exceed mill run, ground corn and cob.
The H. O. Co.'s New England Stock Feed	H. O. Mills.....	Buffalo, N. Y.	Wheat middlings, ground corn, hominy feed, oat hulls, oat shorts, ground oats, molasses, $\frac{1}{2}$ of 1% salt.
The Park & Pollard Co. Stock Feed	The Park & Pollard Co.....	Boston, Mass.	Ground corn, hominy feed, oat feed.
Schumacher Stock Feed.....	The Quaker Oats Co.....	Chicago, Ill.	Ground corn and barley, hominy feed, wheat flour, cottonseed meal, ground puffed rice, and wheat. Wheat middlings with ground screenings, not exceeding mill run. Oat meal mill by-product, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1% salt.
Victor Feed	The Quaker Oats Co.....	Chicago, Ill.	Ground corn, hominy feed, oat meal mill by-product, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1% salt.
White Diamond Feed.....	The Quaker Oats Co.....	Chicago, Ill.	Ground corn, hominy feed, oat meal mill by-product, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1% salt.
Blue Grass Valley Feed.....	Q. Waller & Co.....	Henderson, Ky.	Winter wheat bran, winter wheat middlings, ground corn and cob.

Name.	Manufactured by.	Address.	Certified to Contain.
ALFALFA AND CLOVER MEALS.			
Banner Brand Out Clover.....	Jos. Breck & Sons.....	Boston, Mass.	Red clover hay.
Alfalfa Meal.....	The Denver Alfalfa & Milling Products Co.,	Denver, Col.	Alfalfa hay.
Alfalfa Meal.....	The Albert Dickinson Co.....	Chicago, Ill.	Made from alfalfa hay.
Pure Alfalfa Meal.....	National Feed Co.....	St. Louis, Mo.	Ground alfalfa hay.
Alfalfa.....	The Park & Pollard Co.....	Boston, Mass.	
Red Star Brand Alfalfa Meal....	Somers & Co.....	240 Cal. St., San Francisco, Cal.	Pure ground alfalfa hay.
Otto Weiss Alfalfa Meal.....	Otto Weiss Alfalfa Stock Food Co.....	Wichita, Kas.	Ground alfalfa hay.
CALF MEALS.			
Blatchford's Calf Meal.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.	Locust bean meal, unpressed flaxseed, wheat, flour, barley meal, ground beans and peas, rice, Polish old process oil meal, cocoa shell meal, cocoanut meal, re-cleaned cottonseed meal, Fenugreek, dried milk, anise and salt.
Schumacher Calf Meal.....	The Quaker Oats Co.....	Chicago, Ill.	Oat meal, wheat meal, ground flaxseed, dried casein, cottonseed meal, $\frac{1}{2}$ of 1% bicarbonate of soda.
Ryde's Cream Calf Meal.....	Ryde & Co.....	Chicago, Ill.	Carob, beans, flaxseed, wheat flour, cottonseed meal, beans and lentels, Fenugreek, anise, cocoa meal, trace of salt, blood meal.

